

42. (New) A process for the production of a durable photocatalytically active coated glass which comprises depositing on the surface of a glass substrate a photocatalytically active titanium oxide layer having a thickness of less than 40 nm by contacting the surface of the substrate, which is at a temperature in the range 645°C to 720°C, with a fluid mixture containing a source of titanium.
43. (New) A process as claimed in claim 42 wherein the substrate is at a temperature in the range 670°C to 720°C.
44. (New) A process as claimed in claim 42 wherein the fluid mixture is a gaseous mixture comprising titanium tetraalkoxide as the source of titanium.
45. (New) A process as claimed in claim 42 wherein the fluid mixture is a gaseous mixture comprising titanium tetraethoxide as the source of titanium.
46. (New) A process as claimed in claim 42 wherein the fluid mixture comprises titanium chloride as the source of titanium and an ester other than a methyl ester.
47. (New) A process for the production of a photocatalytically active coated substrate which comprises depositing a titanium oxide coating having a thickness of less than 40 nm on a substrate by contacting a surface of the substrate with a fluid mixture comprising titanium chloride and an ester other than a methyl ester.
48. (New) A process as claimed in claim 47 wherein the surface of the substrate is contacted with the fluid mixture when the substrate is at a temperature in the range 600°C to 750°C.
49. (New) A process as claimed in claim 47 wherein the ester comprises an alkyl ester having an alkyl group with a β hydrogen.
50. (New) A process as claimed in claim 47 wherein the ester comprises a carboxylate ester.

51. (New) A process as claimed in claim 47 wherein the ester is an alkyl ester having a C₂ to C₄ alkyl group.
52. (New) A process as claimed in claim 51 wherein the ester comprises an ethyl ester.
53. (New) A process as claimed in claim 52 wherein the ester comprises ethyl acetate.
54. (New) A process as claimed in claimed in claims 47 wherein the ester is the only source of oxygen in the fluid mixture.
55. (New) A process as claimed in claim 1 wherein the fluid mixture is a gaseous mixture.
56. (New) A process as claimed in claim 1 wherein the process is performed on-line during the float glass production process and the substrate is a glass ribbon.
57. (New) A process as claimed in claim 56 wherein the process is performed in the float bath.
58. (New) A process as claimed in claim 1 wherein the process is performed at substantially atmospheric pressure.

REMARKS

Favorable reconsideration of the application is respectfully requested in light of the amendments and the following detailed discussion.

Claims 1-17 have been cancelled and new claims 42-58 have been added. New claim 42 contains the limitations of original claim 17 and further requires that the titanium oxide layer has a thickness of less than 40 nm, the basis for which can be found, for example, in the paragraph bridging pages 2 and 3 of the application. New claim 43 is a new claim requiring that the